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a front-end server having internal and external interfaces; said front-end server external interface being attached to the public network; said front-end server being configured to drop non-requested incoming packets from the public network; said non-requested packets including signed packets and unsigned packets; and

a back-end server having internal and external interfaces; said back-end internal interface being attached to the network elements and to said front end internal interface via said back-end external interface; said back-end server being so configured as to gather packets requested by the network elements from the public network, and signed packets from the front-end server; said back-end server being configured so as to prevent leaks from the network elements.

- 2. A firewall system as recited in claim 1, wherein at least one of said front-end and back-end servers is configured to implement IP filtering.
  - 3. A firewall system as recited in claim 2, wherein said front-end and back-end servers implement IP filtering according to the same rules.

4. A firewall system as recited in claim 1, wherein said back-end server is configured to capture at least one request from one of the network elements and to analyse said request for legitimacy before passing it to the public network.

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- 5. A firewall system as recited in claim 1, wherein said back-end server is configured to detect a transfer of data from the network elements to the public network.
- 6. A firewall system as recited in claim 1, wherein at least one of said back-end internal and external interfaces and front-end internal and external interfaces is in the form of an ethernet card.
- 7. A firewall system as recited in claim 1, wherein said front-end server is configured with a first OS (Operating System) and said back-end server is configured with second OS.
  - 8. A firewall system as recited in claim 7, wherein said first and second OS are different.

- 9. A firewall system as recited in claim 1, wherein said back-end server includes an application gateway.
- 10.A firewall system as recited in claim 1, wherein said back-end server includes a proxy service.

- 11.A firewall system as recited in claim 1, wherein said front-end server is so configured as to provide NAT (Network Address Translation).
- 5 12. A firewall system as recited in claim 11, wherein said NAT is so implemented as to not allow DNS (Domain Name System) to pass.
- 13.A firewall system as recited in claim 1, wherein said 10 front-end server includes a third interface.
  - 14.A firewall system as recited in claim 13, further comprising at least one of a DNS server, a web server, an email server and a time server connected to said third interface of the front-end server and wherein said third interface is configured so as to provide a DMZ (DiMilitarized Zone) for said at least one of a DNS server, a web server, an email server and a time server.
- 15. A firewall system as recited in claim 14, wherein said front-end server is configured to examine request sent to one of said at least one of DNS, web, email and time servers for potentially malicious commands.
- 16.A firewall system as recited in claim 13, further comprising a push mail server connected to said third interface of the front-end server and wherein said third interface is configured so as to provide a DMZ for said push mail server.

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- 17. A firewall system as recited in claim 16, further comprising an internal email server connected to said internal interface of said back-end server; wherein said back-end server is configured to transfer email from said push mail server to said internal email server; whereby no email is allowed to pass through said front-end server directly to said back-end server.
- 18.A firewall system as recited in claim 16, wherein said push mail server is being configured to verify email for malicious content.
  - 19.A firewall system as recited in claim 18, wherein said push mail server is configured to remove active content form emails.
- 20. A firewall system as recited in claim 18, wherein said push mail server is configured to scan emails for viruses.
- 21. A firewall system as recited in claim 17, further comprising an internal site firewall attached to said internal interface of said back-end server; said internal mail server being attached to said internal site firewall.
  - 22. A firewall system as recited in claim 21, further comprising a DNS server attached to said internal site firewall.
  - 23. A firewall system as recited in claim 21, further comprising a web server attached to said internal site firewall.





- 24.A firewall system as recited in claim 1, wherein said front-end server is attached to the public network via a router.
- 5 25.A firewall system as recited in claim 1, wherein said public network is the Internet.